

Publications

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A. Archived Publications

1. M.A. Temple, A. Guner and R.L. Claypoole, Jr., "Direct Path Filtering of the DAB Waveform from the PCL Receiver Target Channel," *IEE Electronic Letters*, Accepted: December 2002, Projected Publication: Feb 2003.
2. T.B. Hale, M.A. Temple, M.C. Wicks, J.F. Raquet, and M.E. Oxley, "Localized Three-Dimensional Adaptive Spatial-Temporal Processing for Airborne Radar," *IEE Proceedings – Part F: Radar, Sonar and Navigation, Special Edition: Radar 2002 Best Papers*, Invited Submission, Projected Publication: Feb 2003.
3. T.B. Hale, M.A. Temple, M.E. Oxley, and M.C. Wicks, "Performance Characterization of a Hybrid STAP Architecture Incorporating Elevation Interferometry," *IEE Proceedings – Part F: Radar, Sonar and Navigation*, Vol. 149, No. 2, April 2002, pp. 77-82.
4. R.W. Thomas, R.A. Raines, R.O. Baldwin, and M.A. Temple, "Performance Analysis of Multicast Algorithms for Mobile Satellite Communication Networks," *Computer Communications Journal, Special Issue on Advances on Performance Evaluation of Computer and Telecommunications Networking*, Invited submission, 25 (11-12), 2002, pp. 1085-1093.
5. K.L. Sitler, M.A. Temple, R.C. Novack, and J.A. Hughes, "High Range Resolution Profiling Using Phase-Coded, Stepped Frequency Waveforms," *IEE Electronic Letters*, Vol. 38, No. 1, 3 Jan 2002, pp. 46-48.
6. J.M. Anderson, M.A. Temple, and M.E. Oxley, "Nonlinear Suppression of Range Ambiguities in Pulse-Diverse Radar," *IEE Electronic Letters*, Vol. 37, No. 20, September 2001, pp. 1251-1253.
7. R.W. Klein, M.A. Temple, and R.A. Raines, and R.L. Claypoole, "Interference Avoidance Communications Using Wavelet Domain Transformation Techniques," *IEE Electronic Letters*, Vol. 37, No. 15, July 2001, pp. 987-989.

8. T.B. Hale, M.A. Temple, and M.C. Wicks, "Clutter Suppression Using Elevation Interferometry Fused with Space-Time Adaptive Processing," *IEE Electronic Letters*, Vol. 37, No. 12, June 2001, pp. 793-795.
9. M.M. Salah, R.A. Raines, M.A. Temple, and T.G. Bailey, "Approach for Deriving Performance Bounds of Punctured Turbo Codes," *IEE Electronic Letters*, Vol. 35, No. 25, December 1999, pp. 2191-2193.
10. S.R. Pratt, R.A. Raines, C.E. Fossa, and M.A. Temple, "An Operational and Performance Overview of the Iridium Low Earth Orbit (LEO) Satellite System," *IEEE Communications Surveys*, <http://www.comsoc.org/pubs/surveys/>, 2nd Quarter 1999, pp. 1-15.
11. C.E. Fossa, R.A. Raines, G.H. Gunsch, and M.A. Temple, "A Performance Analysis of the Iridium Low Earth Orbit Satellite System with a Degraded Satellite Constellation," *ACM Mobile Computing and Communications Review*, Vol. 2, No. 4, October 1998, pp. 54-61.

B. Conference Publications (Refereed Paper Selection)

1. C.M. Canadeo, M.A. Temple, R.A. Raines and R.O. Baldwin, "Code Selection for Enhancing UWB Multiple Access Communication Performance Using TH-PPM and DS-BPSK Modulations." *Proceedings of the IEEE Wireless Communications and Network Conference* (WCNC 2003), New Orleans, LA, March 2003, Accepted: November 2002.
2. M.J. Lee, M.A. Temple, R.L. Claypoole, Jr., R.A. Raines, and J.P. Stephens, "Wavelet Domain Communication System: Bit Error Sensitivity Characterization for Geographically Separated Transceivers," *Proceedings of the IEEE Military Communications Conference* (MILCOM 2002), Anaheim, CA, October 2002.
3. T.M. Schwamb, R.O. Baldwin, R.A. Raines, and M.A. Temple, "Dynamic Bandwidth Allocation for Military Communication Networks," *Proceedings of the IEEE Military Communications Conference* (MILCOM 2002), Anaheim, CA, October 2002.
4. T.B. Hale, M.A. Temple, M.C. Wicks, J.F. Raquet, and M.E. Oxley, "Localized Three-Dimensional Adaptive Spatial-Temporal Processing for Airborne Radar," *IEE International Radar Conference (Radar 2002)*, Edinburgh, UK, October 2002, Accepted: March 2002.
5. T.B. Hale, M.A. Temple, J.F. Raquet, M.E. Oxley and M.C. Wicks, "Elevation Interferometric STAP Using a Thinned Planar Array," *Proceedings of the 2002 IEEE National Radar Conference (Radcon 2002)*, Long Beach, CA, April 2002, pp. 408-414.
6. M.J. Lee, M.A. Temple, R.L. Claypoole, and R.A. Raines, "Transform Domain Communications and Interference Avoidance Using Wavelet Packet Decomposition," *Proceedings of the IEEE Wireless Communications and Network Conference* (WCNC 2002), Orlando, FL, March 2002, Vol. 1, pp. 255-259.

7. R.W. Klein, M.A. Temple, R.L. Claypoole, Jr., R.A. Raines and J.P. Stephens, "Wavelet Domain Communication System (WDCS) Interference Avoidance Capability: Analytic, Modeling and Simulation Results," *Proceedings of the IEEE Military Communications Conference* (MILCOM 2001), McLean, VA, October 2001, Vol. 2, pp. 1034-1038.
8. R.W. Thomas, R.A. Raines, R.O. Baldwin, and M.A. Temple, "Simulation Modeling and Evaluation of Satellite-Based Multicasting Protocols," *Fall 2001 IEEE Vehicular Technology Conference*, Atlantic City, NJ, October 2001, Vol. 1, pp. 305-309.
9. R.W. Thomas, R.A. Raines, R.O. Baldwin, and M.A. Temple, "Performance Analysis of Multicast Protocols for Mobile Satellite Communication Networks," *2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems*, Orlando, FL, July 2001, pp. 27-34.
10. C.J. Bradley, P.J. Collins, M.A. Temple, A.J. Terzuoli, Jr., G. Nesti, J. Fortuny, and G.D. Lewis, "A Performance Analysis of Several Bistatic Calibration Techniques," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, Sydney, Australia, July 2001.
11. C.J. Bradley, P.J. Collins, M.A. Temple, A.J. Terzuoli, Jr., G. Nesti, J. Fortuny, and G.D. Lewis, "A Study of Existing Bistatic Calibration Techniques," *2001 IEEE AP-S International Symposium on Electromagnetic Theory*, Boston, MA, May 2001.
12. R.W. Klein, M.A. Temple, R.L. Claypoole, Jr., R.A. Raines, and J.P. Stephens, "Performance Characterization of a Proposed Wavelet Domain Communication System (WDCS)," *5th World Multi-Conference on Systematics, Cybernetics, and Informatics* (SCI 2001), and *7th International Conference on Information Systems Analysis and Synthesis* (ISAS 2001), 1st Place, Best Paper, Transmission System Session, Orlando, FL, July 2001, Invited Paper.
13. T.B. Hale, M.A. Temple, and B.L. Crossley, "Ambiguity Analysis for Pulse Compression Radar Using Gold Code Sequences," *Proceedings of the 2001 IEEE National Radar Conference*, Atlanta, GA, May 2001, pp. 111-116.
14. J.M. Anderson, M.A. Temple, W.M. Brown, and B.L. Crossley, "A Nonlinear Suppression Technique for Range Ambiguity Resolution in Pulse Doppler Radars," *Proceedings of the 2001 IEEE National Radar Conference*, Atlanta, GA, May 2001, pp. 141-146.
15. C.J. Bradley, P.J. Collins, M.A. Temple, A.J. Terzuoli, Jr., G. Nesti, J. Fortuny, and G.D. Lewis, "Issues in the Calibration of Bistatic RCS Measurements," *Proceedings of the IEEE Eleventh International Conference on Antennas and Propagation* (ICAP 2001), Manchester, UK, April 2001, Vol. 1, pp. 293-297.
16. M.A. Roberts, M.A. Temple, R.A. Raines, and E.P. Magee, "Initial Acquisition Performance of a Transform Domain Communication System: Modeling and Simulation Results," *Proceedings of the IEEE Military Communications Conference* (MILCOM 2000), Los Angeles, CA, October 2000, Vol. 2, pp. 1119-1123.
17. M.M. Salah, R.A. Raines, M.A. Temple, and T.G. Bailey, "A General Interleaver for Equal and Unequal Error Protection for Turbo Codes with Short Frames," *Proceedings of the IEEE*

International Conference on Information Technology: Coding and Computing, Las Vegas, NV, March 2000, pp. 408-411.

18. M.M. Salah, R.A. Raines, M.A. Temple, and T.G. Bailey, "Energy Allocation Strategies for Turbo Codes with Short Frames," *Proceedings of the IEEE International Conference on Information Technology: Coding and Computing*, Las Vegas, NV, March 2000, pp. 412-415.
19. P.J. Swackhammer, M.A. Temple, and R.A. Raines, "Performance Simulation of a Transform Domain Communication System for Multiple Access Applications," *Proceedings of the IEEE Military Communications Conference (MILCOM 1999)*, Atlantic City, NJ, October 1999, Vol. 2, pp. 1055-1059.
20. K.S. Wilson, V.P. Pyati, and M.A. Temple, "Dependence of Monopulse Radar Boresight Error on Incident E-Field Polarization," *Proceedings of the 1995 IEEE International Radar Conference*, Washington DC, May 1995, pp. 568-572.
21. M.A. Temple and V.P. Pyati, "Radome Depolarization and Phase Front Distortion Effects on Boresight Error Prediction," *Proceedings of the 1994 IEEE National Radar Conference*, Atlanta GA, March 1994, pp. 177-182.

C. Other Publications (Abstract Selection)

1. M.A. Roberts, M.A. Temple, R.A. Raines, and J.P. Stephens, "Transform Domain Communications: Interference Avoidance and Acquisition Capabilities," 1st Place Best Paper, Da Vinci Predictive Paper Award, *Proceedings of the IEEE 2000 National Aerospace and Electronics Conference (NAECON 2000)*, Dayton, OH, October 2000, pp. 610-617.
2. M.A. Temple and K.S. Wilson, "Probabilistic Backscatter Coefficient Generating Function," *Proceedings of the SPIE International Symposium on AeroSense*, Orlando, FL, Apr 1999, Vol. 3721, No. 65, pp. 665-670.
3. C.E. Fossa, R.A. Raines, M.A. Temple, G.H. Gunsch, "A Tutorial Overview of the Iridium Low Earth Orbit Satellite Communication System," *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON 1998)*, Dayton, OH, July 1998, pp. 152-159.
4. E.F. Elmer, M.A. Temple, and R.M. Oxley, "Tri-Service Digital Receiver Concept," *39th Joint Electronic Warfare Conference*, USAF Academy, Colorado Springs CO, May 1994.
5. M.A. Temple, "Single Aperture Emitter Locating System," *35th Joint Electronic Warfare Conference*, USAF Academy, Colorado Springs CO, May 1990.

D. Papers Currently Under Review / In-Progress

1. M.A. Temple, J. Kurian, and December 13, 2002J.M. Anderson, "Nonlinear Ambiguous Clutter Suppression Using Waveform Diversity and Reserved Code Thresholding," *IEE Electronic Letters*, Submitted: December 2002.
2. M.J. Papaphotis, M.A. Temple, R.L. Claypoole, Jr., "Basis Invariant Performance of Optimal Mutually Dispersive Brown Symbols for Non-Linear Ambiguity Suppression," *IEE Electronic Letters*, Submitted: November 2002.
3. R.B. Noel, R.O. Baldwin, R.A. Raines, and M.A. Temple, "WLAN CSMA/CA Performance in a Bluetooth Interference Environment, " *Computer Communications Journal*, Submitted: November 2002.
4. J. Kurian, M.A. Temple, T.B. Hale and R.L. Claypoole, Jr., "Ambiguity Resolution Using Non-Linear Suppression (NLS) with Polyphase and Brown Coded Waveforms," *Proceedings of the 2003 IEEE National Radar Conference*, Huntsville, AL, May 2003, Submitted: October 2002.
5. K.L. Sitler, M.A. Temple, R.A. Raines, and J.A. Hughes, "High Range Resolution Improvement Using Synthetic HRR Processing with Stepped-Frequency Polyphase Coding," *IEE Part F: Radar, Sonar, and Navigation*, Submitted: September 2002.